
METALUNIT
DOORS
and HARDWARE
for W. C. STALLS
OF MARBLE, ETC.
WEISTEEL
PANEL and FLUSH
TOILET AND
DRESSING ROOM
COMPARTMENTS
·
HOSPITAL
CUBICLES
WEISALLOY
ALUMINUM
ALLOY
SHOWER
COMPARTMENTS
HENRY WEIS MANUFACTURING CO., Inc.
Elkhart - Indiana

PRODUCTS INDEX

Weisalloy (Panel and Flush)

Description Page 2
Specifications Page 3
Details Pages 8, 9, 10, 11, 12
Hardware Page 19

Panel Weisteel

Description Page 4
Specifications Page 4
Construction Features Page 5
Details Pages 8, 9, 10, 11, 12
Hardware Page 19

Flush Weisteel

Description Page 6
Specifications Page 6
Construction Features Page 7
Details Pages 8, 9, 10, 11, 12
Hardware Page 19

Hospital Cubicles (Panel and Flush)

Description and Details Page 8

Details

Toilet Stalls (Panel WEISTEEL) Pages 9-10
Toilet Stalls (Flush WEISTEEL) Pages 9-10
Tub Compartments (Panel WEISTEEL) Page 10
Tub Compartments (Flush WEISTEEL) Page 10
Shower Compartments (Panel WEISTEEL) ... Pages 11-12
Dressing Rooms (Panel WEISTEEL) Pages 11-12
Dressing Rooms (Flush WEISTEEL) Pages 11-12

Metalunits

Description and Features Page 13
Flush METALUNIT Page 14
Panel METALUNIT Page 15
Hardware Pages 16, 18
Color Chart Page 17

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HENRY WEIS MANUFACTURING CO., INC.

1876 — 1931

AN ORGANIZATION WITH OVER HALF A CENTURY OF EXPERIENCE IN SERVING ARCHITECTS AND BUILDERS

The Company

The Henry Weis Manufacturing Co., Inc., was founded at Kansas City, Mo., in 1876 and has been in business continuously since that time. In 1915, the factory was moved from Kansas City to Atchison, Kansas, remaining there until 1926 when a new, modern factory and office building was occupied in Elkhart, Indiana.

This company originated metal Toilet, Shower and Dressing Room Compartments. It has continuously contributed to the industry outstanding improvements in design and construction. Its products have always been known for quality materials and workmanship.

Growth of the company, its rating in Dun's and its reputation and standing with the architectural profession and building trades are proof of its responsibility and dependability.

Manufacturing Facilities

More than sixty thousand square feet of expertly planned floor space are required for the production of Weis products. Special manufacturing equipment and production methods have been developed and are constantly improved to provide volume, quality production at economical cost.

Supervision of manufacturing is in charge of men of ability and with broad experience.

Sales and Service Organization

Weis products are sold and serviced in more than one hundred principal cities in the United States. (See list opposite page and map below.) The organization of each representative is experienced and favorably known in its building trade territory. The entire sales organization has had an average of more than six years' experience in the sale of Weis products.

Products

The products of the company are as follows:

WEISTEEL Toilet, Shower and Dressing Room Compartments and Hospital Cubicles. These are supplied in either panel or flush construction.

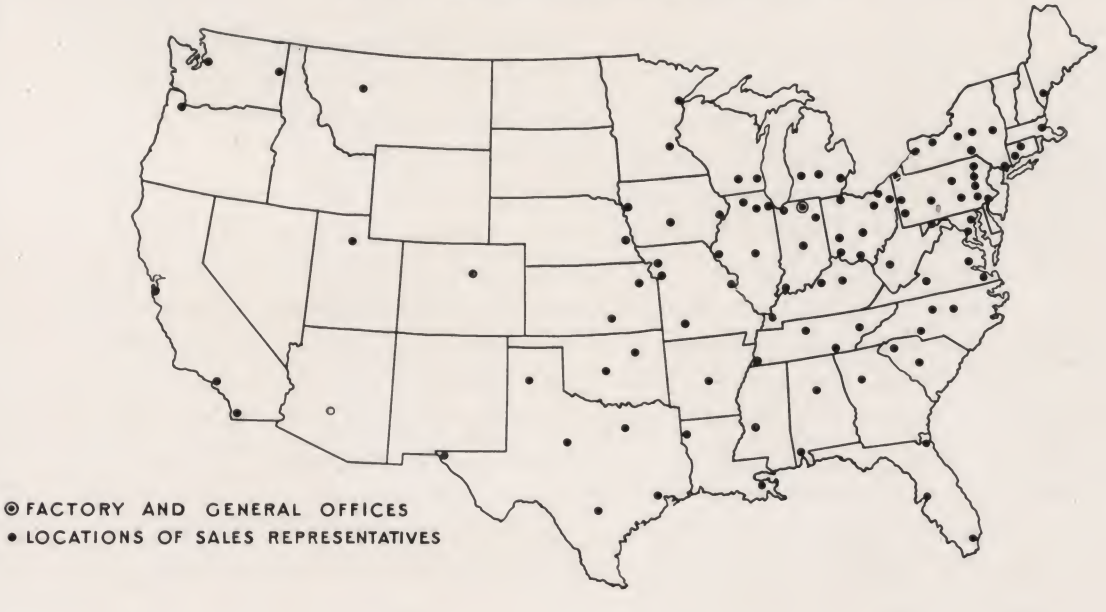
Weis METALUNIT (Panel or Flush Custom-Built Door, with hardware) for W. C. Stall Partitions of marble, slate, glass, Vitrolite, Alberene Stone, terrazzo, etc.

WEISALLOY (Aluminum Alloy) Toilet, Shower and Dressing Room Compartments. (Panel Shower Compartments, Panel or Flush Dressing Room and Toilet Compartments.)

A detailed description of the above products will be found in the following pages of this catalog.

Note: **WEISTEEL and WEISALLOY Leakproof Integral Shower Bath Cabinets. For complete data on these products see Sweet's Index, or ask for special catalog.**

A NATION-WIDE SERVICE



Engineering Service

Architects, engineers, builders and owners are invited to avail themselves of the company's facilities for detailed information on specific requirements. Weis engineers will offer suggestions for practical adaptation of Weis products without obligation.

Information Necessary for Estimates

Due to variations in types of layouts and dimensions, it is advisable to submit rough sketches of the requirements contemplated, showing location of the building walls, height and depth of dividing partitions and width of compartments. Floor construction for shower and dressing room layouts should be shown.

Continued on next page

WEISALLOY

ALUMINUM ALLOY COMPARTMENTS



Rust-Proof Compartments with All the Advantages of Weis Panel or Flush Construction

WEISALLOY (Aluminum Alloy) Partitions and Doors are now available. For shower stall enclosures Panel WEISALLOY only is recommended. For dressing rooms and toilet stalls either Panel or Flush WEISALLOY is satisfactory (see explanatory notes bottom opposite page).

The introduction of these products follows eight years' research and engineering effort, coupled with actual service tests in more than fifty buildings, such as schools, hospitals, clubs, natatoriums, public institutions, etc.

WEISALLOY panel and flush designs have been fully developed; the alloys, gauges, tempers and finishes of all raw materials have been selected by tests; production methods have been developed and perfected and, equally important, a corps of workers has been thoroughly trained in the fabrication of finished products from these raw materials, which have working characteristics totally different from steel.

Based on this practical experience and these time tests, Weis presents WEISALLOY products, particularly to those architects who have hesitated to enclose shower stalls with metal partitions.

Advantages of Weisalloy

Rust-proof—impervious to moisture or odors—pleasing appearance and sanitary construction—economical first cost and maintenance expense —minimum installation time—all parts and fittings made of aluminum alloy—Weis designs particularly adapted to Aluminum Alloy construction —not an experiment but a guaranteed product.

Continued on next page

WEISALLOY
ALUMINUM ALLOY COMPARTMENTS

ARCHITECTS' SPECIFICATIONS

Note: If desirable, standard panel or flush WEISTEEL *Dressing Rooms may be assembled with panel* WEISALLOY *Shower Stalls. (See pages 4 and 6 for panel and flush* WEISTEEL *specifications.)*

Panel Weisalloy

All Shower, Dressing Room and Toilet Compartments noted in this specification shall be Panel WEISALLOY, as manufactured by the Henry Weis Manufacturing Co., Inc., Elkhart, Indiana.

Partitions—Partitions, posts, headrail (backs, utility end plates and covers), to be built of not less than 14 B. & S. gauge aluminum alloy. All partition panels to have sanitary V-shaped moulding at top and bottom formed of the same sheet, which shall be interlocked and welded into the post. Furnish necessary aluminum alloy wall and top post fittings and smooth finish, Government Formula, nickel alloy foot castings, all to be adjustable to take up any variation in walls and floors.

Doors—Doors, where shown on plans, are to have 3 in. stiles and rails, with sanitary cove moulding, and panels of 16 B. & S. gauge aluminum alloy. The mitres of stiles and rails shall be reinforced and welded by the WEISALLOY process and finished flush.

Hardware—The hardware is to be panel WEISALLOY standard, consisting of a Universal Gravity Hinge, Heavy Slide Bar Latch, Pull and Coat Hook. All parts to be brass nickel plated.

Finish—All material shall be thoroughly cleaned and given a coat of grey metal primer.

1. Finish painting to be done after installation. (See painting specifications.)

2. All material to be finally finished at the factory with baked-on enamel, either Sage Green or Light Grey. Specifically state, in specifications, method No. 1 or No. 2 for final finish.

Flush Weisalloy

All Dressing Room and Toilet Compartments noted in this specification shall be Flush WEISALLOY, as manufactured by the Henry Weis Manufacturing Co., Inc., Elkhart, Indiana.

Partitions—All partition panels shall be 1 in. thick. Each panel shall be made up of two sheets of 18 B. & S. gauge aluminum alloy. Before assembly, the inner surfaces of these side members shall be given a bonding coat baked on at 350° F. They shall then be spaced and insulated with a laminated corrugated fiber-board filler, cemented to their inner surfaces. To assure uniform adhesion, all panels shall be subjected to a pressure of five hundred pounds per square foot for twenty-four hours. Edges of panels shall be bound and interlocked, under tension, with drawn aluminum alloy moulding, which shall be welded at corners. All supporting posts shall be 14 B. & S. gauge aluminum alloy and welded to panels to provide an integral, rigid partition unit.

Backs against walls or used as enclosures for utility corridors shall be of 14 B. & S. gauge single sheet, flush panel construction. Vent tops, end plates and utility doors shall be of 14 B. & S. gauge single sheet construction.

Furnish necessary aluminum alloy headrail and post fittings, also wall fittings, which shall be adjustable to take care of unevenness in walls. Include smooth finish, Government formula, nickel alloy foot castings, which are adjustable to take care of variations in floors.

Doors—Doors where shown on plans shall be 1 in. thick and of the same design and construction as specified above for partition panels. Doors shall be guaranteed to be rigid and free from wind.

Hardware—The hardware is to be flush WEISALLOY standard, consisting of a Universal Gravity Hinge, Heavy Slide Bar Latch, Pull and Coat Hook. All parts to be brass, nickel plated.

Finish—All material shall be thoroughly cleaned and given a coat of grey metal primer.

1. Finish painting to be done after installation. (See painting specifications.)

2. All material to be finally finished at the factory with baked-on enamel, either Sage Green or Light Grey. Specifically state, in specifications, method No. 1 or No. 2 for final finish.

IMPORTANT

Flush construction for shower enclosures not recommended.

Reasons: 1. Partition panels cannot be uniformly or *permanently* sealed against shower water.

2. Adaptable filler materials, while moisture resistant, are not water-proof.

3. Water temperature changes are conducive to condensation inside flush panels; hence, only panel WEISALLOY, single sheet construction, recommended for shower enclosures.

Flush compartments for Toilet Stalls and Dressing Rooms are not subject to the above service conditions to any appreciable degree.

Note: All alloys and tempers of alloys for various parts of the product are in accordance with manufacturers' adopted standards, as a result of experiments and tests which were checked with the Engineering Department of the Aluminum Company of America.

All WEISALLOY products are finished in prime coat or baked enamel at factory. (See finish specifications above.) Although these finishes are not required for the preservation of the aluminum alloy, they are recommended for appearance, as aluminum, with age and use, becomes unevenly darker in color.

For descriptions and illustrations of details of designs which are similar to Panel and Flush WEISTEEL, refer to pages 5 and 7. For layout suggestions refer to pages 9, 10, 11 and 12.

Continued on next page

Panel Weisteel Compartments

PANEL
WEISTEEL

WEISTEEL Compartments satisfy a definite, necessary need for sanitary and economical equipment for the modern toilet, shower and dressing room. They represent a completely developed, original product for new or old buildings.

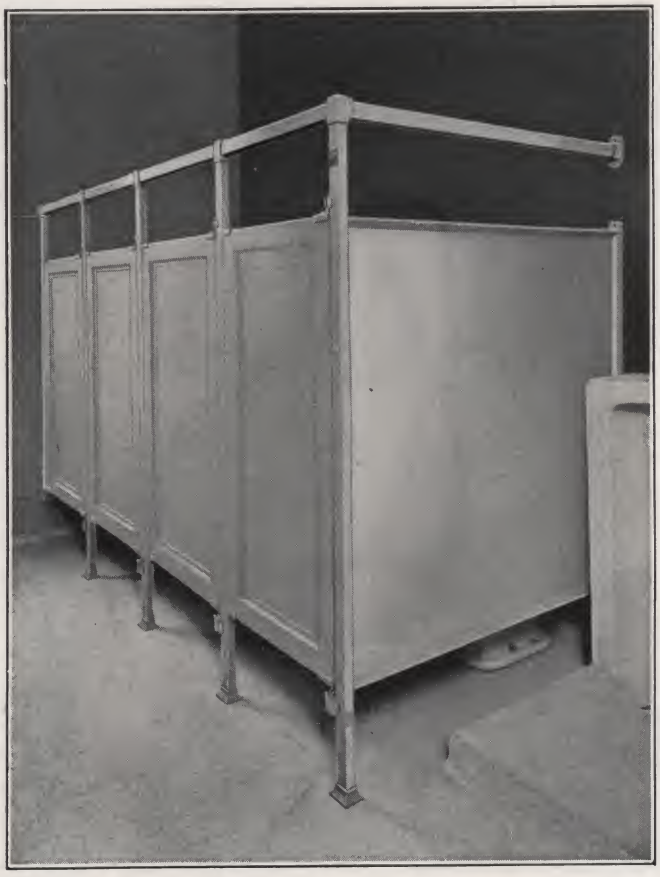
These compartments, of rigid steel construction, have proved their worth in all classes of buildings. For more than twenty years they have met all the requirements of discriminating architects and builders.

In appearance, quality of material and workmanship, they harmonize with any materials with which they may be assembled. Where sanitation, durability and economy are primary considerations, they have established a new standard of utility value.

Sanitary—All joints are closed. The design of the mouldings, floor fittings, enclosed hinge and latch and the absence of projecting screws or bolt heads prevent the accumulation of dust and dirt. The metal is non-absorbent and, when enameled or painted, is not easily defaced.

Substantially Constructed—Each partition, with its integral front and rear post, is a single, substantial unit. Panels and posts are interlocked and welded at top and bottom. The bottom of the front post is firmly held into the floor shoe; the top is rigidly anchored to the headrail. All door corners are reinforced and electrically welded into one solid unit. All joints are finished smooth.

High Quality—There are no unsightly edges or open seams. Joints between panels and rails, and between panels and posts, are closed and sealed—door corners are finished flush and smooth. All fittings are small and fit the sheet steel members snugly. Hardware parts are substantial, of good design and well finished. Paints and enamels used are baked in temperature controlled ovens.



All enamel work has the eggshell finish usually found on the best quality enameled steel products. All shower partitions are first coated with a special oxide primer baked on at 350°. This primer under tests shows wearing qualities ten times greater than metal primers usually applied.

Economical—The first cost of WEISTEEL Compartments is much less than either slate or marble and very little more than wood. There are no parts to wear out. With average care, these compartments should last as long as the building. They can be erected in less time and at much less expense than any other type of compartment.

Erection—The erection of WEISTEEL is simple and foolproof. Only average workmen are required and the cost is comparatively very low. Three bolts only are required to erect a partition; one in the floor and two in the wall fittings. All units are made accurately to dimensions, drilled to template and completely assembled. All holes for the application of hardware are drilled at the factory. No fitting, cutting or drilling is necessary at the job. All parts are plainly marked to correspond to detailed erection drawings. Confusion is thereby eliminated when distributing the material at the building. Complete directions for erection are sent with each shipment.

Architect's Specifications

All toilet stalls, shower and dressing room compartments, partitions, etc., noted in this specification shall be Panel "WEISTEEL," as manufactured by the Henry Weis Manufacturing Co., Inc., Elkhart, Indiana.

Partitions—Partitions, posts, headrail, (backs, utility end plates, and covers), shall be built of not less than 16-gauge, full pickled, cold rolled furniture steel. All partition panels to have sanitary "V" shaped moulding at top and bottom formed of the same sheet, which shall be interlocked and welded into the post. Furnish necessary wall and top post fittings and brass foot castings, which shall be adjustable to take up any variation in the walls and floors. Provide necessary rectangular headrail, not less than 16-gauge, to brace partitions.

Doors—Doors, where shown on plans, are to have 3 in. stiles and rails, with sanitary cove moulding and panels of 18-gauge, full pickled, cold rolled furniture steel. The mitres of stiles and rails shall be reinforced and electrically welded by the "WEISTEEL" process and finished flush.

Hardware—The hardware is to be Panel WEISTEEL standard, consisting of a Universal Gravity Hinge, Heavy Slide Bar Latch, Pull and Coat Hook. All parts to be brass, nickel plated.

Finish—All work is to be finished at the factory with prime coat of (1—red oxide primer) or (2—grey metal primer), (3—baked-on enamel, either Sage Green or Light Grey).

Note: State specifically by number which finish is desired.

Shower Curtains and Hangers—Shower curtains shall be of (nine) or (twelve) ounce duck canvas. (Other material may be specified if preferred.) Shower curtain hangers shall be "WEISTEEL" specially designed, roller bearing, and brass, nickel plated to accommodate rectangular headrail.

Assembly—All parts shall be accurately and substantially assembled with all joints and seams completely filled. Work shall be laid out and assembled to conform to the layout and details shown on plans.

Installation—All work shall be set in place in accordance with the manufacturers' instructions and approved shop drawings. All material included in this specification shall be left in an acceptable condition and complete.

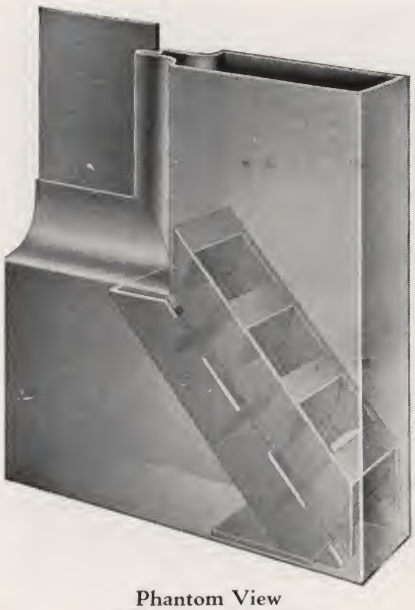
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The Weisteel Door

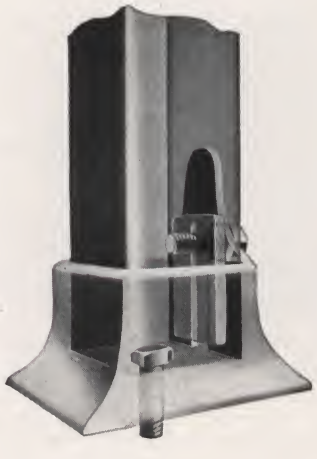
The present WEISTEEL electrically welded (by an exclusive WEISTEEL process) door unit is the result of a long series of tried and discarded fabrication processes, including riveting, soldering, interlocking and soldering, gas welding, arc welding, etc. Each succeeding process possessed certain merits, but with them were found difficulties in fabrication or objectionable features of construction.

Six years ago, the present WEISTEEL exclusive process of electrically welding the four corner joints of the mitered stiles and rails was perfected. Each stage of the process is so mechanically controlled that every door is accurate to required dimensions, and square. The unique reinforcements, here illustrated, become, by this process, an integral part of each corner of the door. At the same time, the mitered ends of the hollow stiles and rails are fused together so that door joints are strongest sections of unit. These continuous, fused joints are then finished flush and smooth.

This process of joint construction, together with the method for assembly of the panel with the rails and stiles results in a door that is rigid, wholly free from "wind" or "weave," pleasing in appearance, practically incapable of being damaged or destroyed under the most severe abuse, and, equally important, its cost is approximately the same as that of a good wood door, when prepared for hardware and finished.



Phantom View
of Door Construction



Panel Weisteel Brass Foot Casting

(Phantom view), shows provision for adjustment to variations in floors. This self-draining shoe is bolted to the floor and the post is then inserted, concealing the bolt. This design of foot casting, in smooth finish Government formula nickel alloy, is also furnished for Flush WEISTEEL, described on pages 6 and 7.



Panel Weisteel Upper Hinge Pivot

The wrought brass yoke of $\frac{5}{32}$" stock is designed for maximum strength and appearance. The special analysis steel pivot pin is assembled as a permanent part of the butt.

The Panel Weisteel Rear Post Fitting

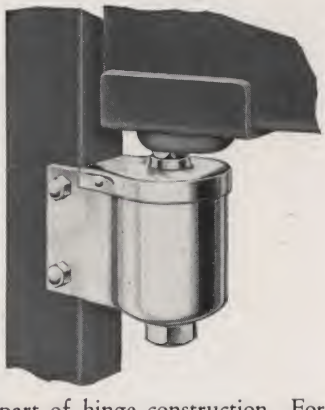
(Top and bottom), made of $\frac{5}{32}$" wrought steel, is adjustable to allow for any variation in the wall. Partition can be set one inch away from wall if desired.





Panel Weisteel Partition Top and Bottom V-rails

Are formed as an integral part of the sixteen-gauge partition panels. Each V-rail has joint on one side only. Note how joint is locked and sealed at intersection with panel. This construction affords maximum rigidity, sanitation and pleasing appearance. Bottom V-rails of all shower enclosures are protected with asphaltum acid-proof paint.



Panel Weisteel Universal Gravity Hinge

Simple and trouble-proof. Exceptionally strong and durable. Used for either single or double acting doors. Will hold the door closed or open at any point selected within radius of swing. Can be mounted for right or left hand door opening in or out. Regular or reverse action immediately obtained without changing any part of hinge construction. For a complete explanation of the interior working parts, refer to page 16.

For adaptation of Panel WEISTEEL *to various layouts of toilet, shower and dressing rooms or tub bath compartments, refer to pages 9, 10, 11 and 12.*

Continued on next page

Flush Weisteel Compartments

FLUSH WEISTEEL

A few years ago a demand for flush type metal compartments became apparent. This demand resulted from two definite causes. First, two decades of use of high-grade metal compartments, such as Panel WEISTEEL, had demonstrated their advantages—sanitation, economy and durability. Second, the desire of architects and builders to have these benefits incorporated into a design which would also include those characteristics found in types of buildings where more expensive kinds of materials were generally used.

A design incorporating the materials and construction which would satisfy this demand presented many difficult problems. On their solution was concentrated the experience and facilities of the Weis organization. Flush WIESTEEL here illustrated and described is the result.

Architects and builders are invited to investigate the product and confirm its merit by comparison.

Important

Flush construction is not recommended for shower stall enclosures for the following reasons:

1—Observation and tests indicate that no suitable flush panel construction can be uniformly and *permanently* sealed against shower water.

2—Adaptable filler materials, while moisture-resistant, are not waterproof.

3—Water temperature changes are conducive to condensation inside the flush panels.

Only single sheet panel construction is recommended for shower enclosures (see description Panel WEISALLOY on pages 2 and 3, and Panel WEISTEEL on pages 4 and 5).



Flush compartments for toilet stalls or dressing rooms are not subject to the above service conditions to any appreciable degree.

Architect's Specifications

Toilet Stalls and Dressing Room Compartments, etc., noted in this specification shall be flush WEISTEEL as manufactured by the Henry Weis Manufacturing Co., Inc., Elkhart, Indiana.

Partitions

All partition panels shall be 1 in. thick. Each panel less than 54 in. in width shall be made up of two sheets of 22-gauge furniture steel; each panel 54 in. and wider shall be made up of two sheets of 20-gauge furniture steel. Before assembly, the inside surfaces of these side members shall be coated with an iron oxide primer baked on at 350° F. They shall then be spaced and insulated with a laminated corrugated fiber board filler, cemented to their inner surfaces. To assure uniform adhesion, all panels shall be subjected to a pressure of five hundred pounds per square foot, for twenty-four hours. Edges of panels shall be bound and interlocked, under tension, with drawn steel moulding, which shall be welded at corners. Supporting posts shall be interlocked and welded to panels to provide an integral, rigid partition unit.

All supporting posts and headrail bracing shall be 16-gauge rectangular steel tubing.

Backs against walls or used as enclosures for utility corridors shall be of 16-gauge single sheet panel construction. Vent tops, end plates and utility doors shall be of 16-gauge single sheet construction.

Furnish necessary headrail and post fittings, also wall fittings, which shall be adjustable to take care of unevenness in walls.

Include smooth finish, Government formula nickel alloy foot castings, which are adjustable to take care of variation in floors.

Doors

Doors, where shown on plans, shall be 1 in. thick, and of the same design and construction as specified above for partition panels. Doors shall be guaranteed to be rigid and free from wind.

Hardware—The hardware is to be flush WEISTEEL standard, consisting of a Universal Gravity Hinge, Heavy Slide Bar Latch, Pull and Coat Hook. All parts to be brass, nickel plated.

Finish

All material shall be thoroughly cleaned and given a heavy coat of grey metal primer.

1—Finish painting to be done after installation. (See painting specifications.)

2—All material to be finally finished at factory with baked on enamel, either Sage Green or Light Grey.

Specifically state, in specifications, method No. 1 or No. 2 for final finish.

Continued on next page

Flush Weisteel Construction Features

1—Flush WEISTEEL is a combination of pleasing rectangular designs.

2—Partitions and doors 1″ thick. This thickness combines desired mass appearance with essential rigidity.

3—Method of binding and interlocking, under tension, the panel side members with a rolled steel moulding is an exclusive Weis construction (see illustration).



Pat. Pending

4—The above method of assembly provides permanent, uniform rigidity and strength along the entire length of edges of all partitions and doors.

5—Each edge of a partition or door is reinforced by three thicknesses of metal (see illustration).

6—No exposed raw edges of metal.

7—No open seams.

8—All cross sections are true and uniform in profile.



Flush Weisteel Partition Wall Fitting

(Top and bottom) made of 5/32″ wrought steel, adjustable to allow for any variation in the wall. Partition can be set 1″ away from wall if desired.



The Flush Weisteel Upper Pivot Butt

Note heavy 5/32″ wrought brass, nickel plated yokes on post and door. The special analysis steel pins for engaging the upper door fitting is assembled as a permanent part of the post yoke.

The Flush Weisteel Front Post Heavy Pressed Steel Fitting

The rectangular headrail is held rigidly by a safety head set screw. Both headrail and post are rigid and stay in alignment.



The Flush Weisteel Special Design Universal Hinge



Simple and trouble-proof. Exceptionally strong and durable. Used for either single or double acting doors. Will hold the door closed or open at any point selected within radius of swing. Can be mounted for right or left hand door opening in or out. Regular or reverse action immediately obtained without changing any part of hinge construction.

For adaptation of flush WEISTEEL *to various layouts of toilet stalls, dressing rooms or tub bath compartments, refer to pages 9, 10, 11, and 12.*

Continued on next page

Hospital Cubicles for Wards and Waiting Rooms

WEISTEEL Ward and Waiting Room Cubicles are the result of extended studies of hospital problems and consultations with numerous hospital architects, hospital consultants and executives. The proven advantages of cubicle equipment for the hospital, the staff and patients are quite thoroughly covered in a booklet (not a catalogue) prepared by the WEISTEEL Professional Service Department, under the title "Good Will and Income from Between Type Patients."

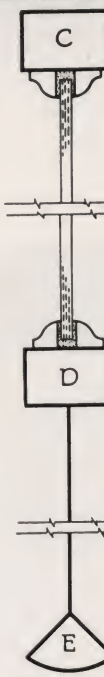
A copy of this booklet will be forwarded free, upon responsible request from architects or hospital executives.

WEISTEEL Cubicles are adaptable for use in maternity wards, children's wards, general wards, surgical and examination wards, and as waiting booths in hospital waiting rooms for out-patient departments and children's clinics. They can be installed in old buildings as readily as they can be included in new building plans. The simplicity of erection insures a satisfactory installation with a minimum amount of interruption or confusion to surrounding hospital activity.

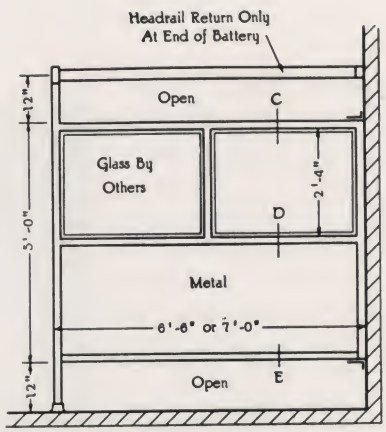
A corps of experienced engineers is available for the convenience of hospital architects and executives contemplating cubicle installations.



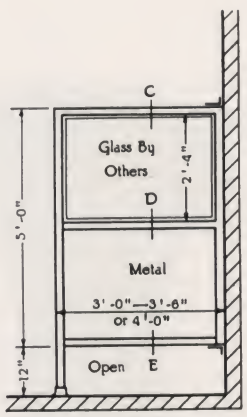




Typical Section of Panel Cubicles
Scale 3"=1'-0"



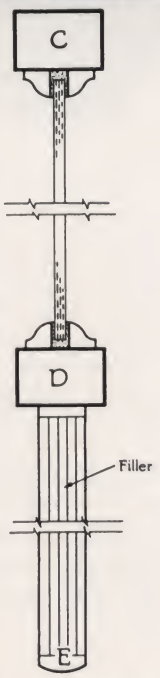
Ward Cubicles



Infant & Waiting Booth Cubicles



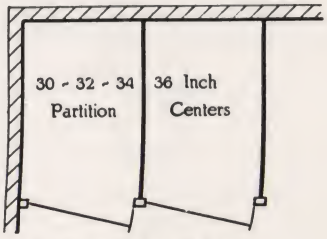
Detail of Snap On Moulding and Clip



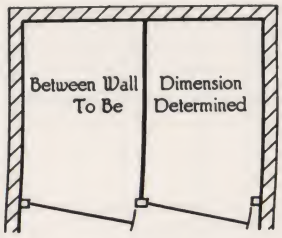
Typical Section of Flush Cubicles
Scale 3"=1'-0"

Panel and Flush Weisteel Hospital Cubicles

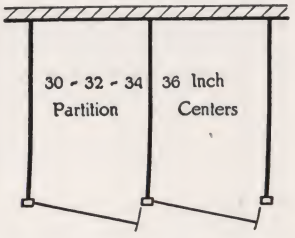
Continued on next page



Series 1 - Illustrated
Series 2 - Opposite

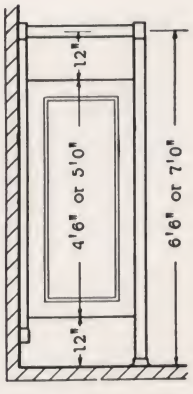


Series 3 - Between Walls

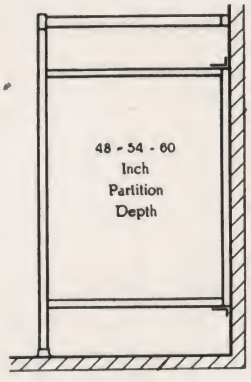


Series 4 - No Walls At Sides

Series 1-2-3 and 4 Furnished in Batteries of Any Number Stalls Required.
Door Sizes Approximately 2" Less Than Partition Centers.

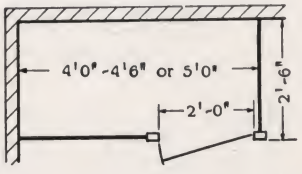


Typical Front Elevation

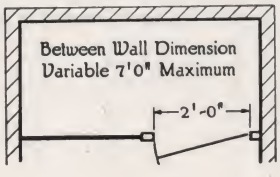


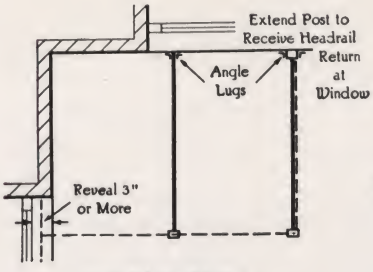
Typical Side Elevation

Series 5 - Illustrated
Series 6 - Opposite

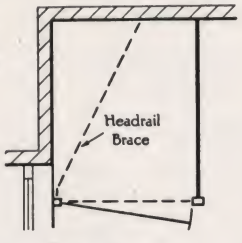


Series 7 - Illustrated
Series 8 - Opposite

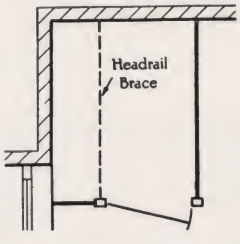




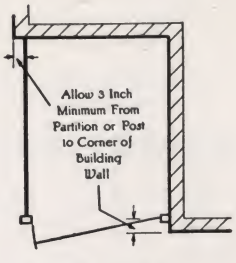
Headrail Across Window
If Not Over 5' Wide—If More Than
This Width Architect to
Detail Bracing



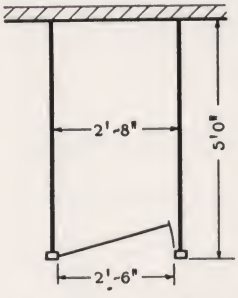
Wall Post Bracing
At Window



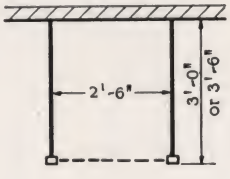
Partition Bracing
At Window



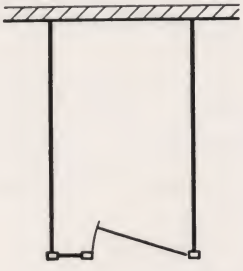
Space Required for
Corner Attachment



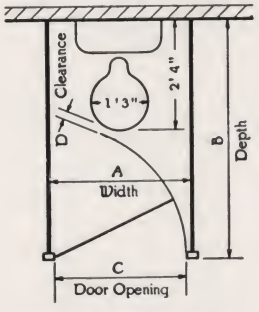
Recommended Standard Size Metal
Toilet Stall With Inswinging
Door. If Door Swings Out Depth of
Stall May be Reduced to 54"
or 48". An Economical Size Stall
Sufficiently Large for all
Types of Buildings.



Recommended Size for
Stalls Without Doors. Doors
are Not Recommended
for Stalls Under 48" Deep.



Front Partition Required With Door When
Depth of Stall Will Not Permit
Inswinging Full Width Door. See Door
Clearance Schedule at Right Front
Partition and Door Assembly as Shown is
Recommended to Provide Maximum
Room for Occupant Entering

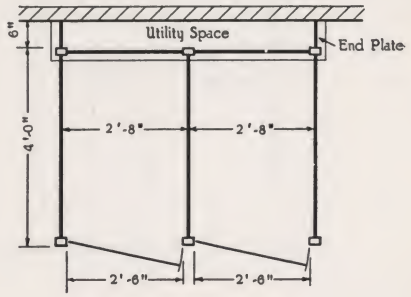


A	B	C	D
30"	54"	28"	1⅛"
32"	54"	30"	*
32"	60"	30"	5⅛"
36"	60"	34"	1¾"

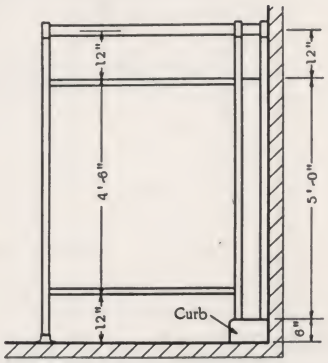
*Short of Clearance

Details of Panel or Flush WEISTEEL Toilet Stalls

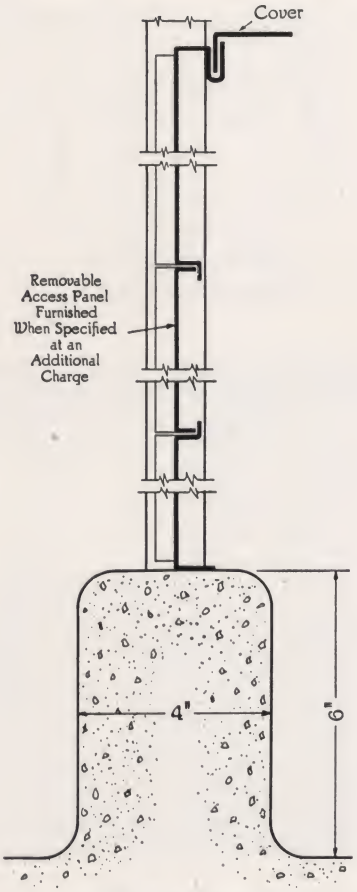
Continued on next page



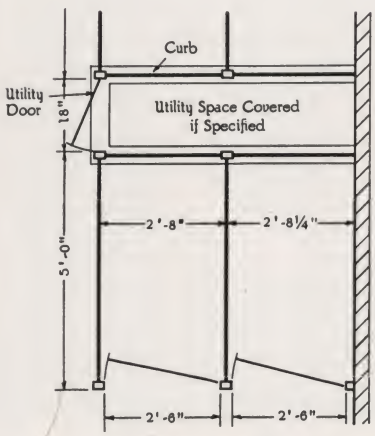
Standard Stall Units Combined With Backs and End Plates to Enclose Utility Space



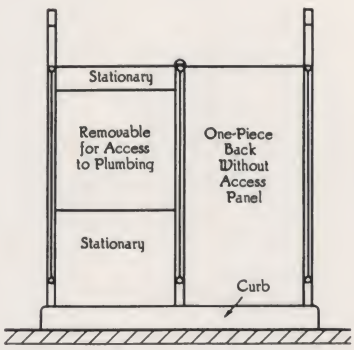
Side Elevation



Section Thru Curb Under Backs

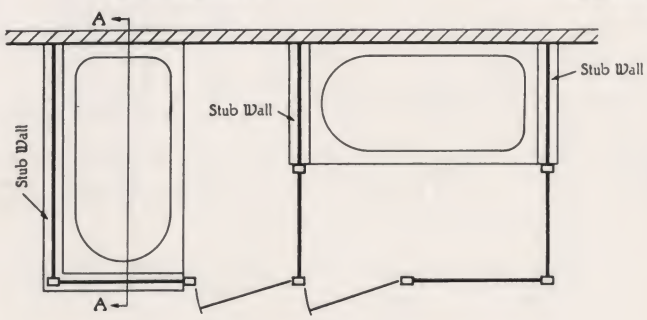


Detail of Utility Space With Stalls on Each Side



Elevation of Backs

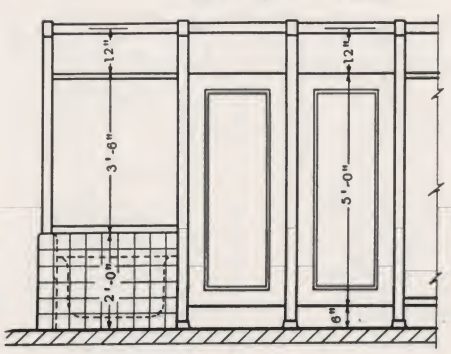
For Sanitation and Economical Maintenance Curb Recommended Under All Backs



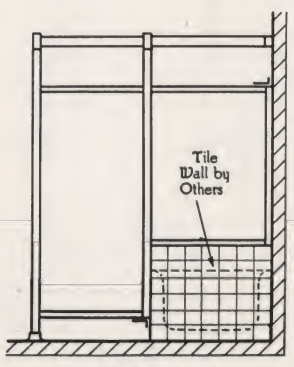
Tub Compartment Layout

Steel partitions and doors are frequently specified as enclosures for tub bathrooms, or compartments, especially where more than one private bath is desired in a group bathroom. Steel enclosures for free-standing tubs present no special problems. The built-in-type of tub, however, does require special treatment to assure uniformly satisfactory results. The wall side and end, or ends, of a built-in tub are designed to permit an integral combination with adjoining walls. Hence, square and accurately ground tub edges are unnecessary. Full height steel partitions are, therefore, not readily adaptable to the built-in-type of tub.

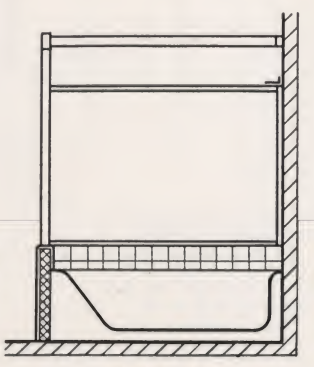
A combination of tile or other kinds of walls and steel partitions, as detailed, assures not only good construction but also one that is economical in first cost and upkeep, as well as pleasing in appearance.



Front Elevation



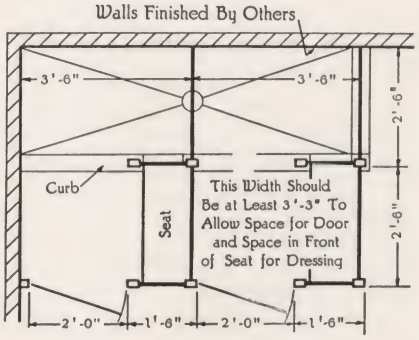
Side Elevation



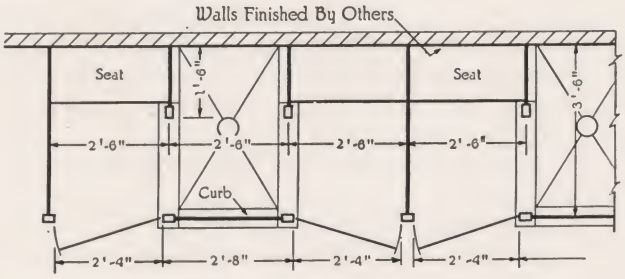
Section -A-A-

Details of Panel or Flush WEISTEEL Toilet Stalls and Tub Compartments

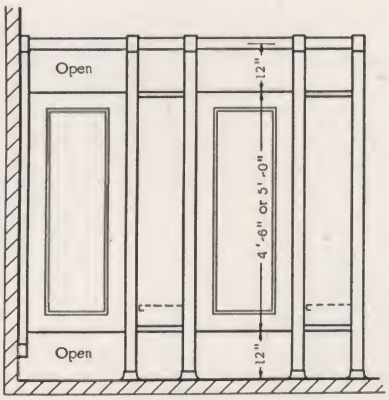
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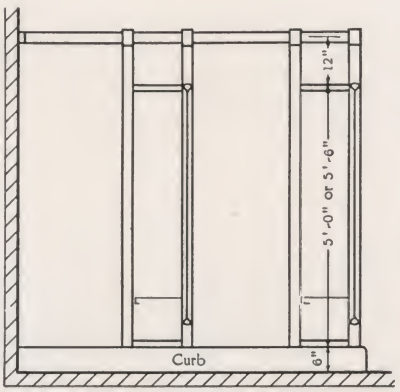
Individual Shower and Dressing Room



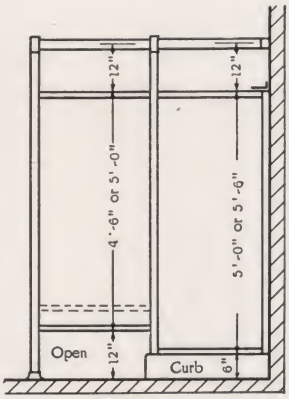
Shower With Two Dressing Rooms



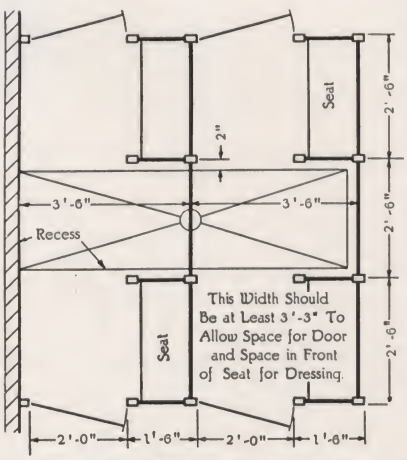
Front Elevation

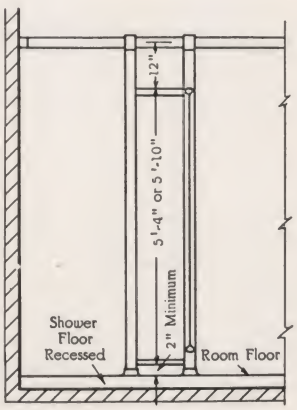


Section Thru Dressing Room

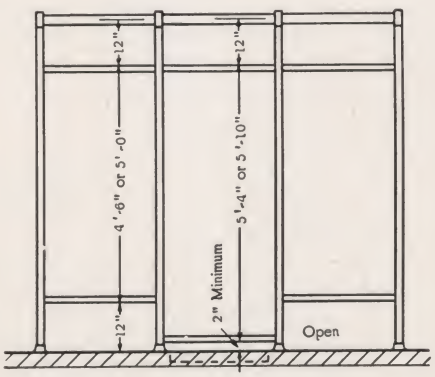


Side Elevation





Section Thru Shower



Side Elevation

Shower With Dressing Room on Each Side

These notes apply to shower and dressing room layouts on this and the following page.

Suggested shower and dressing room layouts detailed are to be used with tile, terrazzo or concrete recessed receptors or built up curbs.

When making layouts, determine first if one, two, three or four dressing rooms for each shower is desired. For high school girls three dressing rooms are generally suitable. One drain for one to four showers is usually sufficient.

The use of metal sides and backs against masonry walls is not recommended.

Allow sufficient space for stool or seat in dressing room. Allow minimum of 28" in front of seat for door swing and space for dressing.

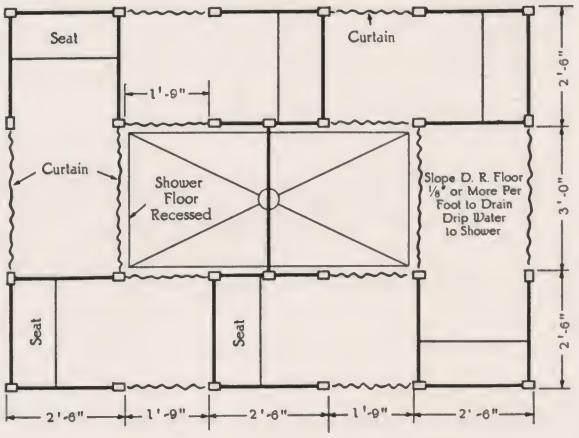
Either doors or curtains may be used for entrance to dressing rooms.

A more sanitary installation is assured by not extending shower partitions to the floor. Doors must be at least 6" above floor to enable use of Weisteel gravity hinge. If doors are less than 6" above floor, special hinges of either spring type or half surface butts must be used.

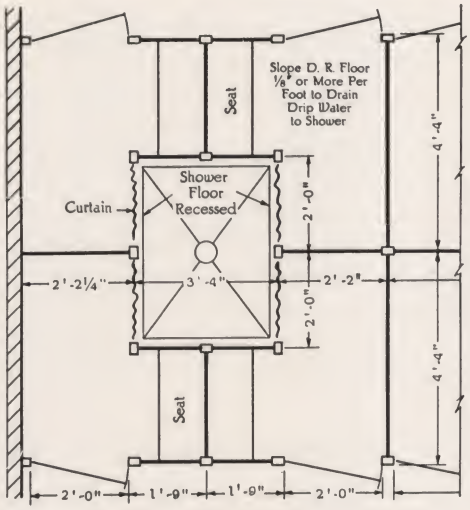
Recessed floor construction for showers is recommended as most satisfactory. Floor of dressing room should be sloped so that drip water from bather will drain from dressing room into shower.

Depth of recess should be 2" or more and partitions should be set on the dressing room level at least 2" away from edge of recess. *(Continued on next page)*

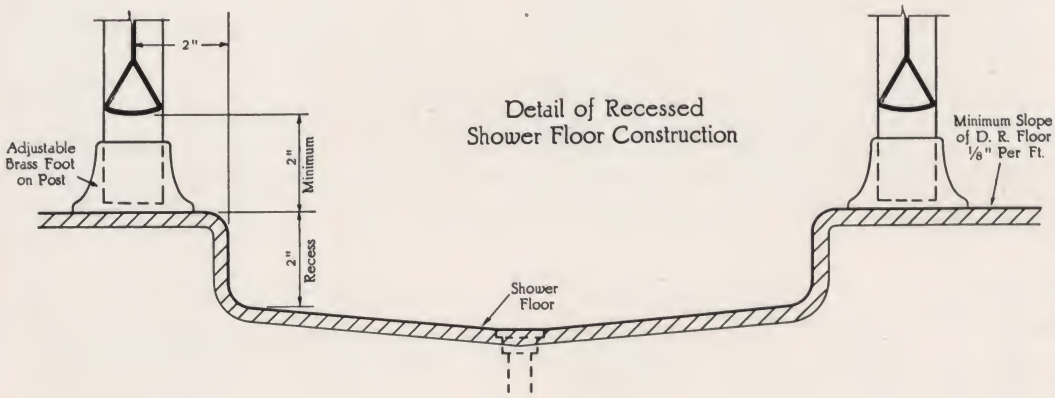
Details of Panel WEISTEEL Shower Compartments Combined With Panel or Flush Dressing Rooms



Combination Layout of Two Adjoining Showers and Six Dressing Rooms

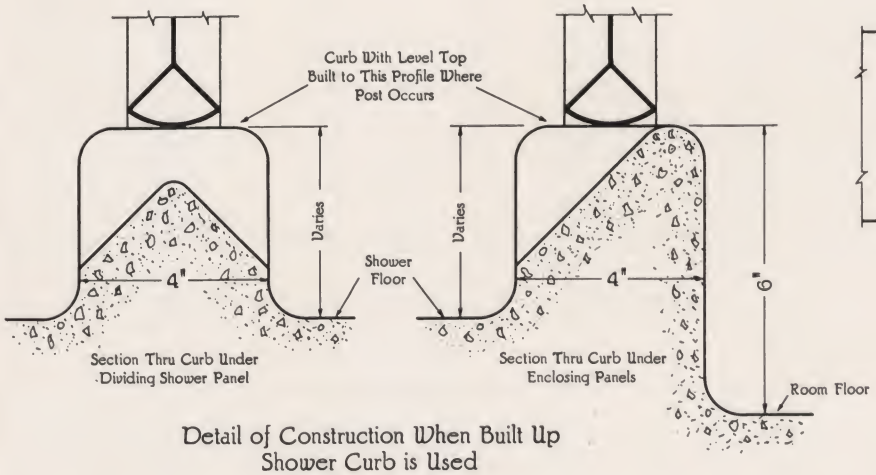


Layout of Single Shower With Four Dressing Rooms

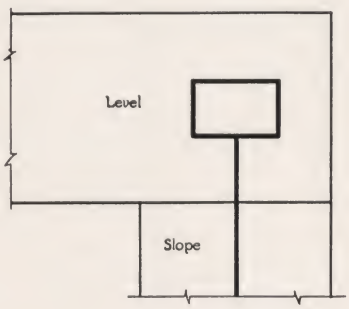




The Weisteel roller bearing curtain hanger is specially designed for use with standard Weisteel headrail and eliminates necessity of a special curtain rod. Shower curtains and hangers when specified are furnished as a part of standard Weisteel equipment at an extra charge.



Detail of Construction When Built Up Shower Curb is Used



PLAN OF CURB

Built-up curbs should be at least 4" wide and 4" to 6" high. Curbs under partitions should slope at an angle as shown in section. Under posts and at entrances to shower, curbs should be level on top. Under dividing shower panels each side of curb should be built at an angle as shown in section.

If unit temperature control is not used, locate valves so temperature of shower can be regulated before entering and shower spray directed toward rear. Place shower head for girls and women not over 5'0" to 5'6" above floor. For men's gang showers, head may be placed 7'0" above floor.

Details of Panel WEISTEEL Shower Compartments Combined With Panel or Flush Dressing Rooms

Continued on next page

An Important Foreword

The Weis METALUNIT (stall door and hardware) signifies a product for use primarily in the finest of buildings.

WEISTEEL standard metal doors (panel or flush type) and hardware for use on stiles of marble, slate, etc., have long been recognized as quality products for those buildings other than Class A structures. Combinations of similar products of other well known manufacturers have also been used for such buildings. Neither these other products nor WEISTEEL standard doors and hardware should be confused with the Weis METALUNIT, described on the four following pages.

Just as fine cloth and expert hand tailoring produce the best custom-made garments for discriminating individuals, METALUNIT features described below provide custom-built doors and hardware which command the enthusiastic approval of the most exacting critics.

WEIS METALUNIT STALL DOOR AND HARDWARE

Definition

A METALUNIT is a combination of a custom-built flush or panel type door and the exclusive Weis Lavatory Door Hardware Set.

Metalunit Features

1 Design

The designs of METALUNIT doors and hardware have been developed to provide the architect with a means of creating a new treatment of line, color and quality in such toilet room equipment.

2 Metals Used

Steel, aluminum alloy, Allegheny or Monel Metal and bronze. Rigid specifications for quality are applied in selecting each of these raw materials. For instance, only select, prime furniture steel sheets are used for METALUNIT Steel Doors.

3 Workmanship

Only a select group of skilled artisans fabricate Weis METALUNITS. Every part entering a METALUNIT is identified as such through its process of manufacture and reflects the skill of these workers.

4 Weight of Evidence

Weis METALUNITS have been investigated, their superior quality recognized and adopted by a great number of architects known for their discrimination in the selection and use of materials.

5 Thorough investigation is invited.

6 Weis METALUNITS are sold under established, uniform prices.

Continued on next page





Patent Applied For

The *flush* METALUNIT (flush metal door with hardware), by Weis, is a new creation in metal-craft. The doors for these units are available in steel, aluminum alloy, Monel or Allegheny Metal, or bronze and in a range of colors and finishes to harmonize with individual decorative treatment. This type of METALUNIT provides a stall door and hardware which is in keeping with the expression of design and quality identifying the better class of buildings.

The appearance appeal of these units is found in exclusive features of design and construction (see illustrations or request sample*), which also lend themselves to economical production. The relative cost is, therefore, surprisingly low.

Architects' Specifications

All W. C. stall doors, of sizes shown on plans, with hardware shall be *flush* METALUNITS, as manufactured by the Henry Weis Mfg. Co., Inc., Elkhart, Indiana. Doors shall be 1″ thick and made of *(state specifically kind of metal),* (steel, aluminum alloy, Monel or Allegheny Metal or Bronze). METALUNITS shall be according to manufacturer's standard construction.

Finish and color shall be Class....., color..... (For finish and color selection see chart on page 17.)

All hardware to be chromium plated. For description and illustration of hardware set, see second page following.

Standard Sizes of Flush Metalunits

DOORS		HARDWARE	DOORS		HARDWARE
Width	*Height*		*Width*	*Height*	
24″	54″	For stiles	24″	60″	For stiles
26″	54″	of any	26″	60″	of any
28″	54″	thickness	28″	60″	thickness
30″	54″	7/8″ to	30″	60″	7/8″ to
32″	54″	2½″	32″	60″	2½″

Special Note: State specifically the thickness of partition stiles on which METALUNITS are to be mounted.

WEIS METALUNIT STALL DOOR AND HARDWARE

*Upon request, nearest representative will furnish sample.

Continued on next page





Patented June 29, 1926

The *panel* METALUNIT (panel metal door with hardware) by Weis, offers a door pleasing in appearance and superior in construction, at a price made possible only by volume production.

Through an exclusive process of electric welding the unique reinforcements here illustrated (sample on request*) become an integral part of each corner. This process of joint construction, together with the method for assembly of panel with rails and stiles, results in a door capable of withstanding the most severe service.

Architects' Specifications

All W. C. stall doors, of sizes shown on plans, with hardware shall be *panel* METALUNITS, as manufactured by the Henry Weis Mfg. Co., Inc., Elkhart, Ind. Doors shall be made of *(state specifically kind of metal)* (steel, aluminum alloy, Monel or Allegheny Metal or bronze). Door stiles and rails to be 3″ with sanitary cove moulding. The mitres of stiles and rails shall be reinforced and electrically welded by the Weis process and finished flush. METALUNITS shall be according to manufacturer's standard construction. Finish and color shall be Class....., color..... (For finish and color selection see chart on page 17.)

All hardware to be nickel plated. For description and illustration of hardware set, see following page.

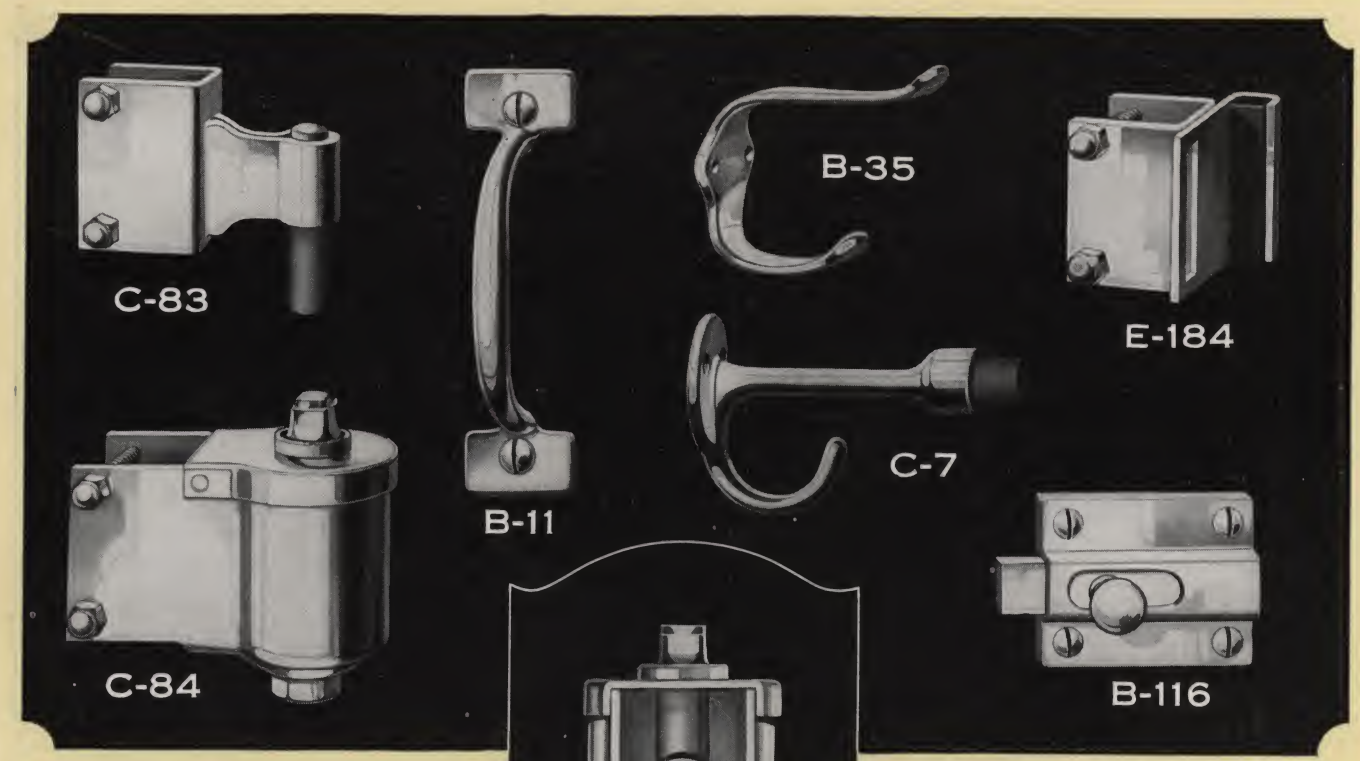
*Upon request nearest representative will furnish sample.

Standard Sizes of Panel Metalunits

DOORS		HARDWARE	DOORS		HARDWARE
Width	*Height*		*Width*	*Height*	
24″	54″	For stiles	24″	60″	For stiles
26″	54″	of any	26″	60″	of any
28″	54″	thickness	28″	60″	thickness
30″	54″	7/8″ to	30″	60″	7/8″ to
32″	54″	2½″	32″	60″	2½″

Special Note: State specifically the thickness of partition stiles on which METALUNITS are to be mounted.

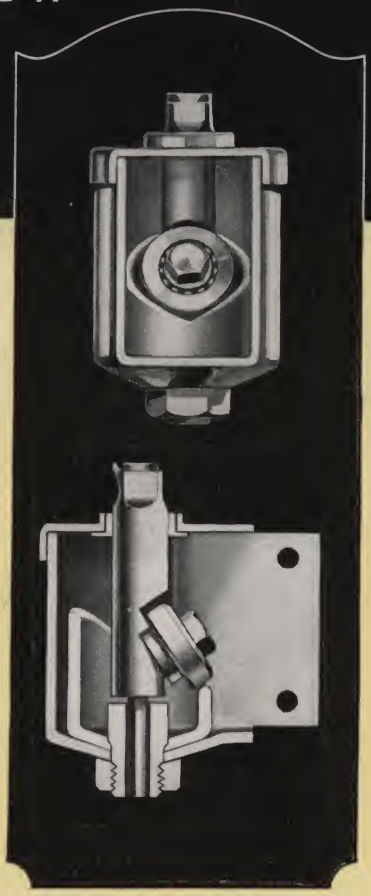
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The Weis W. C. stall door hardware set, illustrated above, embodies new principles of design and construction. This new conception of W. C. stall door hardware combines beauty of line and harmony of parts with practical strength.

Outstanding among the features of this hardware set is the Weis Universal Gravity Hinge, here illustrated. The ball bearing roller is so mounted on the pintle that in operation geometrical continuity of contact is maintained between the roller and its race (see illustration); thus, side thrusts and wear are eliminated. This new principle of construction definitely removes the cause of trouble which frequently develops in gravity hinges. Ball bearing roller and roller race are of case hardened steel. These with the pintle are cadmium plated. Exposed parts are brass, nickel or chromium plated. This hardware set is standard equipment on *flush* or *panel* METALUNITS.

It is also available as a separate hardware set for wood doors or metal doors of other manufacture, where weight of door does not exceed eighty pounds. Standard sets of Weis W. C. stall door hardware are furnished to fit any thickness of stiles, up to and including 2½", of marble, vitrolite slate, terrazzo, etcetera. Hinge assemblies are also furnished for fly doors or swing gates.



Architects' Specifications

(Weis W. C. stall door hardware set for wood doors or metal doors of other manufacture.)

NOTE—When METALUNITS are specified, this hardware set is included.

All W. C. stall door hardware for attaching doors to (state kind of) partitions (state thickness) inches thick shall be Weis W. C. stall door hardware manufactured by Henry Weis Mfg. Co., Inc., Elkhart, Indiana.

All hardware parts to be (nickel) or (chromium) plated (state which).

Hardware set shall consist of Weis Universal Gravity Hinge assembly, latch, combination keeper and bumper and combination coat hook and bumper. (Two prong coat hook and pull are substituted for combination coat hook and bumper, if doors swing out.)

Important Notes

Marble, slate, etc., must project a minimum of four inches above and below door for attaching Weis hinge assembly.

When specified, a throw or pendulum type latch will be substituted for standard slide bar latch, as illustrated.

WEIS METALUNIT STALL DOOR AND HARDWARE

Continued on next page



METALUNITS are furnished in any of the colors here shown or in special colors as may be specified. The above chart is suggestive of the effective use of METALUNITS in color when combined with various colors and shades of marble or other distinctive partition materials.

The following table lists standard finishes and groups them according to class:

CLASS I	CLASS II
No. 300 Red Primer	No. 401 Sage Green
400 Green Primer	701 Cadet Grey
600 Grey Primer	

CLASS III	CLASS IV
No. 402 Lawn Green	No. 101 Florentine Red
501 Slate Blue	104 White
502 Potomac Blue	601 Morocco Brown
	801 Light Ivory

Colors listed under Classes 2, 3 and 4, are regularly furnished in the highest grade baking enamels, rubbed to a piano finish. A specially developed enamel is used, combining the hardness of lacquer and the toughness of long oil enamels, without the usual brittleness of the former or softness of the latter.

Continued on next page

WEIS METALUNIT STALL DOOR AND HARDWARE

MISCELLANEOUS AND SPECIAL HARDWARE PARTS

Special strikes and keepers are substituted at no extra charge for Weis standard No. E-184 when necessary to meet installation conditions. These special strikes and keepers are illustrated below. All strikes and keepers are wrought brass, for right or left hand single acting doors. They are furnished for partition stiles up to and including 2 in. in thickness. Special fittings furnished for terrazzo partitions 2 in. thick. Stile and door thicknesses must be stated when ordering.

Other special hardware parts, as illustrated below, may be substituted at an extra charge for similar parts regularly included in the Weis W. C. Stall Door Hardware Set. (See page 16 for illustration and description of this hardware set.)

All hardware parts shown below are furnished in nickel or chromium plated finish. Chromium plate finish is supplied at an extra charge.



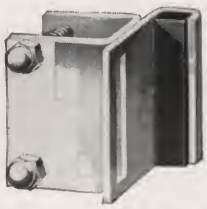
No. E-188—No bolt hole strike for doors opening in or out and used for single acting screen doors without latch.



No. E-207—For mortise bolt for doors opening in or out and used with latch E-157



No. E-208—For throw latch doors opening in



No. E-184—For slide bolt latches doors opening in



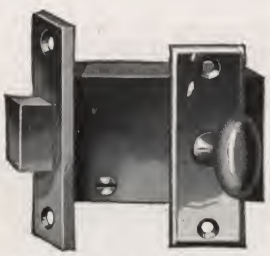
No. E-209—For throw latch doors opening out



No. E-185—For slide bolt latches doors opening out



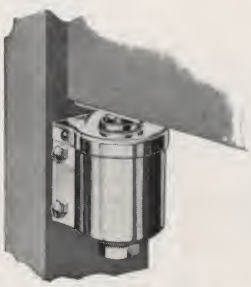
No. E-210—Face plate for mortise bolt on flush METALUNITS. Used with lock E-157



No. E-157—Mortise bolt—cast metal



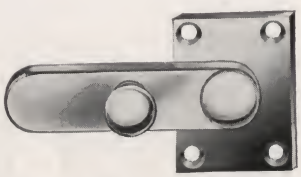
C-136 Top Fitting—Flat jamb upper hinge bracket for jamb face with a minimum width of 1¾ inches, and flat plate supplied for attachment to wood doors furnished by others.



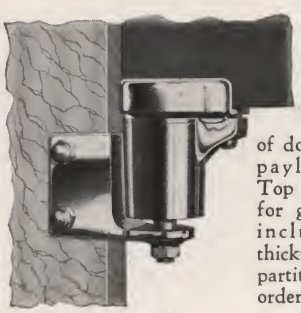
C-136 Bottom—Flat jamb lower hinge bracket for jamb face with a minimum width of 1¾ inches, and flat plate furnished for attachment to wood doors



The illustration above shows C-136 flat jamb lower hinge bracket used with cut-out wood swing gate or door



No. B-23—Throw latch. Wrought brass. Bar ¼ x ¾ in. Note: When door not latched, latch bar hangs vertically



No. C-111—Spring hinge assembly at bottom of door furnished for paylock installation. Top fitting, (same as for gravity hinge), included. Specify thickness of door and partition stile when ordering

Pay Locks

The HENRY WEIS MFG. CO., INC., does not sell, install or service paylocks. These locks may be obtained from manufacturers who sell or lease, install and service them, according to their respective policies. A list of representative paylock manufacturers will be furnished upon request. We will reinforce and drill METALUNIT doors for receiving paylocks at no extra charge, provided no alteration to our standard construction of doors is necessary. Complete information for drilling and reinforcing must be furnished by paylock manufacturer.



No. E-211—Pull plate



No. E-68—Push plate

Continued on next page

WEISTEEL

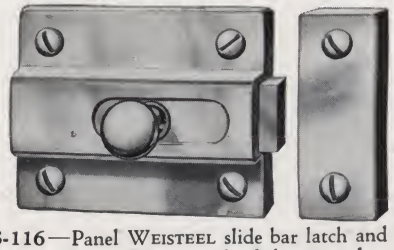
STANDARD AND MISCELLANEOUS HARDWARE PARTS FOR PANEL AND FLUSH COMPARTMENTS



No. B-11—Brass pull—nickel plated.



No. C-7—Combination coat hook and rubber tipped bumper; brass, nickel plated. Furnished when doors swing into compartment.



No. B-116—Panel WEISTEEL slide bar latch and keeper.
No. B-60 —Panel WEISTEEL latch keeper only.
No. B-119—Flush WEISTEEL slide bar latch used with keepers B-126 or B-127.



No. B-126—Keeper for flush WEISTEEL inswinging doors.



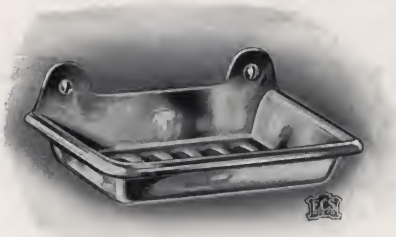
No. B-127—Keeper for flush WEISTEEL outswinging doors.



No. B-128—Strike for flush WEISTEEL doors without latches.

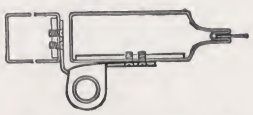


No. B-35—Two prong coat hook; brass nickel plated. Furnished in dressing rooms and compartments when doors swing out.



No. E-171—Brass N. P. soap dish.





No. E-147—4 in. half surface spring hinge used when special construction will not permit use of standard WEISTEEL hinge account door being too close to floor. Hinge painted same as door.



No. E-150—National no-waste cabinet type paper holder, nickel plated only.



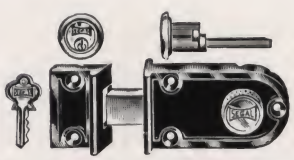
No. E-88—Brass, nickel plated roll paper holder.



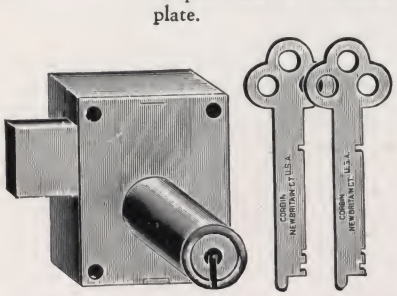
No. E-148—A. P. W. Onliwon cabinet type paper holder, painted same as partitions or furnished in chrome plate.



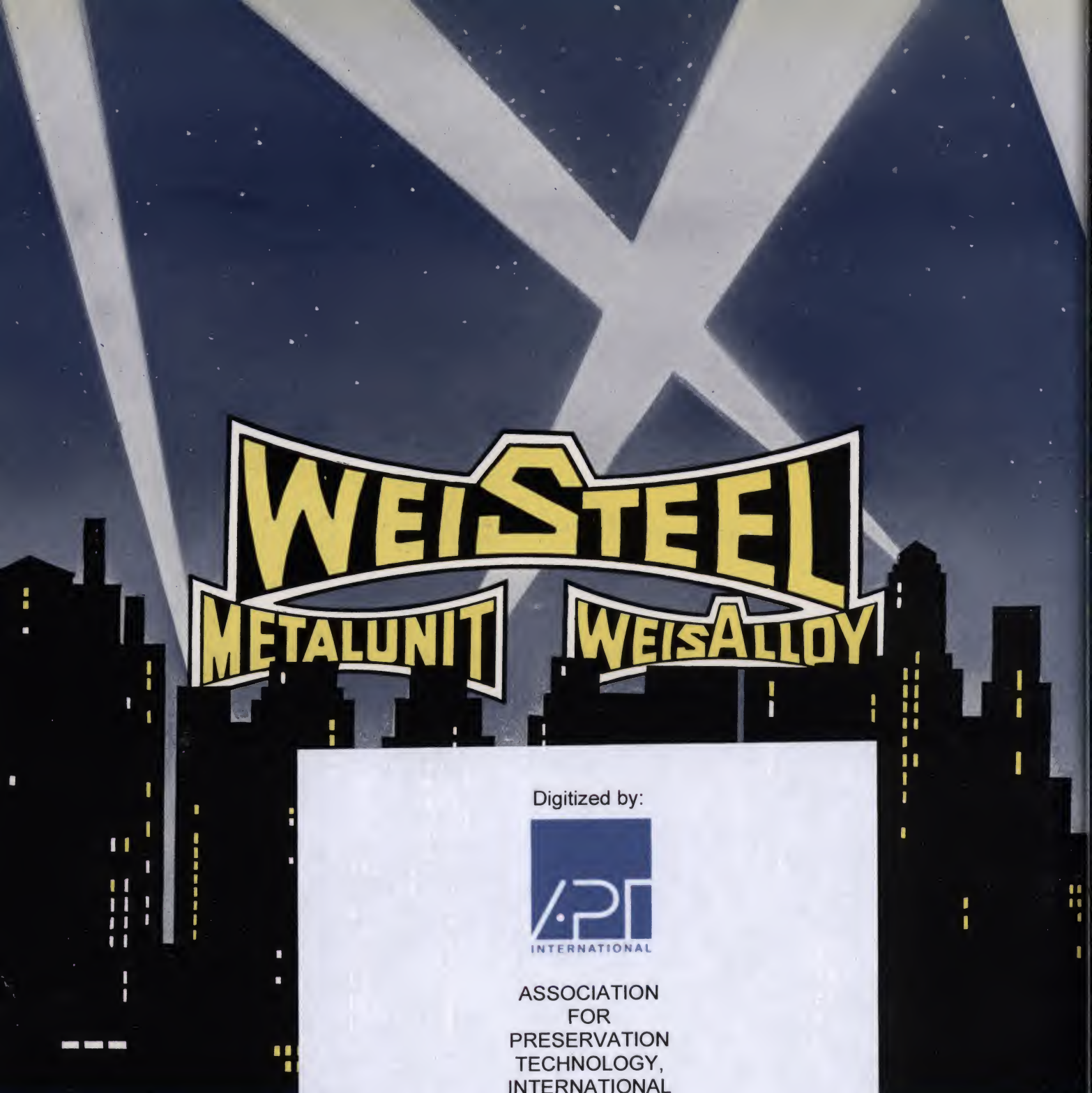
No. C-36—3 in. half surface hinge used for utility doors and special compartments where spring hinges are not wanted. Hinge painted same as door.



No. B-47—Lock with B-48 keeper. Pin-tumbler cylinder deadlock. Bolt throw ¾ in. Can be master-keyed. Keeper illustrated used for Panel WEISTEEL. For Flush WEISTEEL a keeper similar to B-126 and B-127 furnished.



No. C-43—Secure lever lock. Five secure levers. Heavy brass bolt projecting ¾ in. for either right or left hand door. Two polished, nickel plated flat, steel keys to each lock. These locks can be master-keyed. This lock operates from outside of door only and a keeper is furnished with it. When this lock is used, it is necessary to use B-116 latch.



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